

November 14, 2013

MoDOT Central Office – Local Programs Administrator  
[MaryAnn.Jacobs@modot.mo.gov](mailto:MaryAnn.Jacobs@modot.mo.gov)

RE: Letter of Interest for Structures

Poepping, Stone, Bach & Associates, Inc. (PSBA) has extensive experience in all facets of bridge design services and we have the qualifications and experience to complete these services in a manner that will more than meet your expectations. PSBA is well known for our commitment to getting projects done on time and within budget. PSBA has completed numerous preliminary and/or final bridge design on routine structures, cost comparisons, hydraulics, detailing and structural design projects. PSBA has completed over 350 bridges, retaining walls, structure and foundation designs within Missouri, Illinois and Iowa. There are more detailed descriptions of these projects below, but over the last 26 years, we have studied and designed over 40 miles of four-lane highway improvements with bridge design, bridge replacement and interchange improvements with construction costs in excess of \$115 million. Our staff, location, experience and dedication to providing quality-engineering services make us uniquely qualified to undertake this challenging assignment.

PSBA is an employee owned firm with over 45 years of experience in providing a full range of engineering, GIS and surveying services to governmental, commercial and industrial clients. Our experienced staff of professionals has completed numerous similar type projects, which include:

**Project Experience:**

- ◆ **Bridge #20500251 Over Elk Fork, Monroe County, MO.** This structure was washed out during a flash flood in July of 2008, was under contract by September 2008 and was ready for advertisement by March 2009. Michael Purol was the PE in-charge for this project and oversaw all survey work, preliminary design, permitting, right-of-way acquisition, and final design associated with this project. Constructed by Bleigh Construction Company.
- ◆ **Bridge #4460007 Over Otter Creek, Monroe Co.** This structure is located within the flood easement of Mark Twain Lake requiring additional permitting through the Corps of Engineers. Michael Purol was the PE in-charge of survey work, preliminary design, permitting, right-of-way acquisition, and final design of this project. Constructed by Chester Bross Construction Company.
- ◆ **Bridge #50700041 Over Little Indian Creek, Monroe County, MO.** This bridge was constructed through the joint effort of Monroe County and Monroe City Special Road district for Soft-match Credit by Magruder Construction Company. Michael Purol was the PE in-charge of survey work, preliminary design, permitting, right-of-way acquisition, and final design of this project.
- ◆ **Bridge #15000221 Over a Tributary of the Bourbeuse River, Gasconade County, MO.** This structure services a lake community in southern Gasconade County. The structure was fast tracked by using county funds to contract the work and acquire soft-match credit to construct 2 other dilapidated structures. Michael Purol was project engineer for this structure and conducted/assisted in all survey work, preliminary design, permitting, right-of-way acquisition, and final design of this project.

---

<input type="checkbox"/> 100 SOUTH 54 <sup>TH</sup> STREET	P. O. BOX 709	QUINCY, IL 62306	PHONE 217/223-4605	FAX 217/223-1546
<input type="checkbox"/> 3523 MAIN STREET	P. O. BOX 817	KEOKUK, IA 52632	PHONE 319/524-8730	FAX 319/524-7720
<input type="checkbox"/> 801 BROADWAY, SUITE 224	P. O. BOX 190	HANNIBAL, MO 63401	PHONE 573/406-0541	FAX 573/406-0390

- ◆ **Bridge # 30800021 Over the Middle Fabius River, Lewis County, MO.** Constructed by Bleigh Construction Company, this structure required extensive roadway relocation to avoid extensive rock cut and to minimize wetland mitigation. Approximately 1 acre of wetland was constructed with this project to meet 404 permit regulations. Michael Purol was the project engineer for this structure and conducted all structural calculation, oversaw right-of-way acquisition, and construction of this project.
- ◆ **Bridge Over Peno Creek, City of Bowling Green, MO.** This structure was funded with CDBG funds thanks to a new tenet in the Cities Industrial Park. Since time was of an essence to serve the new employer, the structure was designed with steel abutments and a precast superstructure so construction could take place in inclement weather if necessary. Fortunately the design and letting of the roadway project was fast tracked and constructed before winter weather could slow construction. Constructed by Chester Bross Construction Company. Michael Purol was project engineer for this structure and conducted/assisted in all survey work, preliminary design, permitting, and final design of this project.
- ◆ **BRO Program - Co Rd 2660, Randolph County, MO.** Design of a replacement structure at low water crossing. Preliminary services included topographic survey, hydraulic study, alternative designs and cost estimates, and preliminary plans. Prepared detailed construction plans, cost estimates, specifications and related documents necessary for bidding. Determined ROW requirements and prepared ROW plans.
- ◆ **North 5<sup>th</sup> Street Bridge Over Cedar Creek, Quincy, IL.** Design of replacement structure and associated road work. Provided surveys, hydraulics, flood flow histories, permits, bridge condition report, preliminary bridge design and hydraulic report which included economic analysis of bridge and high water effects, prepared environmental and planning documents, prepared preliminary roadway and drainage structure plans; traffic studies and counts and special intersection studies as required; complete general and details plans, special provisions and estimates of cost. This bridge is a single span, 128 foot by 35 foot wide steel plate girder structure in an 8 inch concrete deck, concrete parapets with open abutments.
- ◆ **Bridge Replacement/Rehabilitation on SN 034-3142 over Spring Creek, Hancock Co, IL.** PSBA provided hydraulic reports, permits, preliminary bridge design, project development report, bridge condition report and final plans. This bridge will be widened to allow for two lanes of traffic, precast prestressed concrete deck beams, Type S-1 guardrail on both sides and open abutments to allow for better hydraulic flow.
- ◆ **Triple Barrel Box Culvert on Co Hwy 12, Broadwell Township, Logan Co, IL.** PSBA provided detailed surveys, hydraulic surveys, prepared Corps of Engineers permit, bridge condition report, preliminary bridge design, hydraulic report, final plans, environmental documents, preliminary roadway and drainage structure plans and final plans for the triple box culvert to replace the current structure.
- ◆ **Culvert over Waggoner Creek, Hancock Co, IL.** Prepared hydraulic surveys, Corps of Engineer permit, bridge condition report, preliminary bridge design, hydraulic report, and final plans for the replacement of the existing culvert.
- ◆ **Route 61, Clark & Lewis County, Missouri from Route B in Lewis County to Fox River Bridge in Clark County, MO.** PSBA provided hydraulic surveys of all bridges and culverts along the 14 Mile project.
- ◆ **Phase II Engineering Services for Various Routes, Various Sections, Various Counties in District 6 for the Illinois Department of Transportation.** Provided Phase II Engineering services including field surveys, plat preparation, right-of-way staking, hydraulic surveys, and hydraulic analysis for various bridges and culverts throughout District 6 in Illinois.
- ◆ **Miscellaneous Engineering for various projects in various counties in District 6 for the Illinois Department of Transportation.** Provided hydraulic surveys and hydraulic analysis for various bridge projects throughout District 6 in Illinois.
- ◆ **Phase I and/or Phase II for Various Projects in Various Counties in District 6 for the Illinois Department of Transportation.** Provide PE II structure plans for the replacement of two structure on IL-96; completed PE I route surveys, hydraulic surveys and hydraulic analysis for three structures on IL 57 and IL 96; completed pick-up surveys, prepared preliminary and final project report for the 3R Bridge Replacement project in IL 10 over Macoupin Creek near Carlinville and the 3R Bridge Replacement project on IL 96 over Railroad Creek, Hamilton, IL
- ◆ **North 18<sup>th</sup> Street Bridge FAU RT 78214, Quincy, IL.** Design of a new bridge over the Burlington Northern Santa Fe RR tracks and Cedar Creek. This project received innovative design funding for the use of galvanizing on all of the steel items including the plate girders, reinforcing steel, bearings, fencing and railing.
- ◆ **4-Lane Expressway Improvements of U.S. 218, Washington County, IA–16.2 Miles–Cost \$20,475,000.** PSBA provided professional services in connection with the improvement of a 16.2-mile portion of U.S. Highway 218

(Avenue of the Saints), in Washington County, IA. PSBA provided plans and specifications; preliminary bridge foundation design (TS&L's for 12 new bridges and 3 twin box culverts); minor drainage structures through single barrel RCB's; full ROW layout and design. Expressway standards were used in the design of this project.

**Key Personnel:**

**Principal-in-Charge** - Charles S. Bach Jr. (SE & PE) has over 42 years of experience in all aspects of structural and civil engineering, bridge design on routine structures including cost comparisons, hydraulics, detailing and structural design. Mr. Bach was the Principal-in-Charge for all projects listed above.

**Project Manager** – Michael J. Purol (PE) joined PSBA in 2009 and is the Vice President in charge of the Missouri office. He has additional experience working with MoDOT personnel. Michael is the P.E. in charge of design for the BRO Program - Co Rd 2660, Randolph County, MO. He also has project experience in urban and rural roadway design, bridge design, hydraulic analysis of open and close channel flow, sanitary and storm sewer design, drainage analysis, and specification writing.

**Structural Engineer** – David S. Poland (PE & SE) has vast experience in foundation and bridge design. Mr. Poland was the Project Manager on the North 18th Street Bridge in Quincy; bridge foundation design on U.S. 218, Washington County, IA; and structural TS&L plans on U.S. 218, Henry County, IA. Mr. Poland has been or is currently the structural engineer or civil engineer for a variety of projects. His engineering project experience includes: road/highway design, bridge design, water treatment plants, land surveying, investigations, specification writing, estimating, construction observation and management.

**Civil Engineer** – Tamera Depke (PE) has worked at various times at PSBA since 1998. Her engineering project experience includes: road/highway design, site design, bridge design, hydraulic analysis, storm sewer design, storm water pollution prevention plan preparation, specification writing, proposals, estimating, construction observation and management of projects

**Civil Engineer** – Nathen Leach (EIT) started at PSBA in 2010 assisting with land and field surveys. Since that time his duties include road and highway designs, site development, environmental and general civil work. He has also worked as a material/construction inspector.

**Sr. Engineering Technician** – Dan Wilson joined PSBA in 2010 with over 22 years of experienced in the civil engineering industry of which 18 of those years were with the North Carolina Department of Transportation. His experience with the NCDOT included surveying, design, highway construction and inspection. Since joining PSBA he has been assisting with the design of roads and highways.

The PSBA Inc. team appreciates the opportunity to present our qualifications to the selection committee. If selected, PSBA will provide the quality product that our clients have come to expect from our firm and we will complete the work within your schedule.

Sincerely yours,

POEPPING, STONE, BACH &  
ASSOCIATES, INC.



Michael J. Purol, P.E.  
Vice-President of Missouri Office

MJP:js

# PSBA

*Poepping, Stone, Bach & Associates, Inc.*

*Engineers, Architects, Surveyors, GIS*  
[www.psba.com](http://www.psba.com)

*Working with Local Public Agencies Since 1968*  
**Bridge Design**



***Developing Partnerships ■ Creating Innovative Solutions ■ Delivering Proven Results***

## Bridge Design Team



**Position: Executive V.P.**  
Professional Engineer (IL, MO, IA, KS) and a Licensed Structural Engineer (IL). Since joining PSBA, Charlie has been the Corporate Officer in charge of Structural Engineering projects for the firm.

**Charles S. Bach, Jr. P.E., S.E.**



**Position: Sr. Eng. Technician**  
Dan joined the Engineering Team of PSBA in 2010 with 22 years of experience in the Civil Engineering Industries. His specialties include Highway Design, CAD Specialist, Plans and Specification Preparation.

**Dan Wilson**



**Position: V.P. Missouri Office**  
Professional Engineer (IL, MO). Since joining PSBA Michael has been responsible for Project Management of all project located in the State of Missouri. Michael has nearly 12 years of Project Management experience.

**Michael J. Purol, P.E.**



**Position: Civil Engineer**  
Nathen has been with PSBA since 2010. His experience includes design of Road/Highway, Site, Environmental, and General Civil work. Nathen has worked in the field as both a survey technician and material/construction observation.

**Nathen Leach, E.I.T.**



**Position: Structural Engineer**  
Professional Engineer (IL, MO, IA), Licensed Structural Engineer (IL). His Qualifications and Specialties include Structural Design for Industrial and Commercial Projects, Bridge Design, and Inspections and Building Assessments.

**David S. Poland, P.E., S.E.**



**Position: Civil Engineer**  
Professional Engineer (IL). Tammy's Experience includes: Design of Road/Highway, Site, Bridge, & Storm Sewer. Hydraulic Analysis, Storm Water Pollution Prevention Plans, Specification Writing, and Construction Observation.

**Tammy Depke, P.E.**

Our Bridge Design Team will bring over 100 years of combined experience to your project. Our team specialize in transportation related services and will help you complete a successful project on time and budget. Please feel free to contact **Michael Purol** in our Hannibal office at 573-406-0541 or **Charlie Bach** in our Quincy office at 217-223-4605 to discuss your project in more detail.

## Bridge Projects



### ***Bridge #20500251 Over Elk Fork, Monroe County, Missouri***

**Client:** Monroe County Commission

**Contact:** Mike Minor

**Project Data:** This structure was washed out during a flash flood in July of 2008, was under contract by September 2008 and was ready for advertisement by March 2009. Mr. Purol was the PE in-charge for this project and oversaw all survey work, preliminary design, permitting, right-of-way acquisition, and final design associated with this project. Constructed by Bleigh Construction Company.



### ***Bridge #4460071 Over Otter Creek, Monroe County, Missouri***

**Client:** Monroe County Commission

**Contact:** Mike Minor

**Project Data:** This structure is located within the flood easement of Mark Twain Lake requiring additional permitting through the Corps of Engineers. Mr Purol was the PE in-charge of survey work, preliminary design, permitting, right-of-way acquisition, and final design of this project. Constructed by Chester Bross Construction Company.



### ***Bridge #50700041 Over Little Indian Creek Monroe County, Missouri***

**Client:** Monroe County Commission

**Contact:** Mike Minor

**Project Data:** This bridge was constructed through the joint effort of Monroe County and Monroe City Special Road District for Soft-match Credit by Magruder Construction Company. Mr. Purol was the PE in-charge of survey work, preliminary design, permitting, right-of-way acquisition, and final design.

## Bridge Projects



### ***Bridge #30800021***

#### ***Over Middle Fabius River, Lewis County, Missouri***

**Client:** Lewis County Commission

**Project Data:** Constructed by Bleigh Construction Company, this structure required extensive roadway relocation to avoid extensive rock cut and to minimize wetland mitigation. Approximately 1 acre of wetland was constructed with this project to meet 404 permit regulations. Mr. Purol was the project engineer for this structure and conducted all structural calculation, oversaw right-of-way acquisition.



### ***Bridge #15000221***

#### ***The Bourbeuse, Gasconade County, Missouri***

**Project Data:** This structure services a lake community in southern Gasconade County. The structure was fast tracked by using county funds to contract the work and acquire soft-match credit to construct 2 other dilapidated structures. Professional services included conducting/assisting in all survey work, preliminary design, permitting, right-of-way acquisition, and final design of this project.



### ***Bridge Over Peno Creek, Bowling Green, Missouri***

**Project Data:** The structure was designed with steel abutments and a precast superstructure so construction could take place in inclement weather if necessary. Fortunately the design and letting of the roadway project was fast tracked and constructed before winter weather could slow construction. Constructed by Chester Bross Construction Company. Professional services included conducting/assisting in all survey work, preliminary design, permitting, and final design.